

Listing of the Claims

1. (Currently Amended) A method of controlling wireless data transmission from a mobile terminal unit (1) to a receiving system (3-6), wherein:
 - a) the terminal unit (1) transmits data via a short-range radio technology (2) in a first mode and switches to a second mode if the quality of the communication link via the short-range radio technology falls below a first predetermined threshold;
 - b) the terminal unit (1) transmits data via a long-range radio technology (7) and switches to the first mode as soon as the quality of the communication link via the short-range radio technology is above a second predetermined threshold;
 - c) on switching from one mode to the other, the communication link (2, 7) via the radio technology of the previous mode is maintained until the link (7, 2) is established via the radio technology of the subsequent mode.

2. (Currently Amended) A method according to claim 1, ~~characterized in that~~ wherein the quality of the communication link via the short-range radio technology (2) is determined by the signal strength, the error rate and/or the signal to noise distance of the communication link.

3. (Currently Amended) A method according to claim 1 ~~or claim 2, characterized in that~~ wherein the short-range radio technology (2) is based on the Bluetooth protocol.

4. (Currently Amended) A method according to ~~at least one of claims 1 to 3, characterized in that~~ wherein the long-range radio technology (7) is based on a WLAN standard.

5. (Currently Amended) A method according to ~~at least one of claims 1 to 4, characterized in that~~ wherein the terminal unit (1) has sensors for measuring physiological parameters of a patient.

6. (Currently Amended) A method according to ~~at least one of claims 1 to 5, characterized in that~~ wherein the communication via the various radio technologies is carried out using stations (3, 5) of the receiving system that are spatially separated.

7. (Currently Amended) A method according to ~~at least one of claims 1 to 6,~~
~~characterized in that~~wherein when switching between two radio technologies, the
transmitted data streams are synchronized.

8. (Currently Amended) A patient monitoring system for mobile acquisition of a
patient's physiological parameters, comprising a mobile terminal unit ~~(1)~~ and a receiving
system ~~(3-6)~~, which is arranged to carry out a method according to ~~at least one of claims 1~~
~~to 7.~~

9. (Currently Amended) A patient monitoring system according to claim 8,
~~characterized in that~~wherein the receiving system comprises a first station ~~(3)~~ with which
the terminal unit ~~(1)~~ can communicate via a short-range radio technology, and a second
station ~~(5)~~ with which the terminal unit ~~(1)~~ can communicate via the long-range radio
technology.

10. (Currently Amended) A patient monitoring system according to claim 9,
~~characterized in that~~wherein the first and second stations ~~(3, 5)~~ are networked.